

Claim listing

This claim listing supercedes all prior versions of the claims in this application.

1. (Currently amended) A balloon catheter comprising an inflatable balloon consisting essentially of at least one metal comprised of a catheter member, an inner balloon and an outer balloon in spaced apart concentric relationship with each other, an annular lumen intermediate the inner balloon and the outer balloon, and an inflation lumen intermediate the catheter member and the inner balloon, at least one of the inner balloon and outer balloon consisting essentially of at least one metal, at least the outer balloon having a plurality of drug-eluting openings passing therethrough and in communication with the annular lumen, a pharmacologically active agent disposed within the annular lumen and elutable through the plurality of drug-eluting openings.

2. (Currently amended) The catheter according to Claim 1, wherein the at least one metal is selected from the group consisting of titanium, vanadium, aluminum, nickel, tantalum, zirconium, chromium, silver, gold, silicon, magnesium, niobium, scandium, platinum, cobalt, palladium, manganese, molybdenum and alloys thereof of titanium, vanadium, aluminum, nickel, tantalum, zirconium, chromium, silver, gold, silicon, magnesium, niobium, scandium, platinum, cobalt, palladium, manganese and molybdenum.

3. (Currently amended) The catheter according to Claim 1, wherein the inflatable balloon—each of the inner and outer balloons has a wall thickness between about 3 μm and 10 μm .

4. (Original) The catheter according to claim 1, wherein the inflatable balloon deflates under the influence of at least one of a shape memory, superelastic or elastic property of the at least one metal.

5. (Original) The catheter according to Claim 1, further comprising a catheter body fabricated from a material selected from the group consisting of polymers and metals.

6. (Currently amended) The catheter according to Claim 1 made by the method comprising the steps of:

vacuum depositing a film of the at least one metal onto the generally cylindrical mandrel having a geometry desired for the inflatable metal balloon to form the inflatable metal balloon; and

removing the generally cylindrical mandrel from the formed inflatable metal balloon.

7. (Currently amended) The catheter of claim 1, further comprising a catheter body member having an inflation lumen and at least one inflation port, wherein the at least one inflation port is in fluid flow communication with an inflation lumen of the inflatable metal balloon.

Claims 8-12: Cancelled.

13. (Original) The catheter of claim 1, wherein the at least one metal is comprised of a radiopaque metal.

Claim 14: Cancelled.

15. (Original) The catheter of claim 1, wherein the inflatable balloon has conductive properties for transmitting energy delivered from an external source.

Claims 16-25: Cancelled.